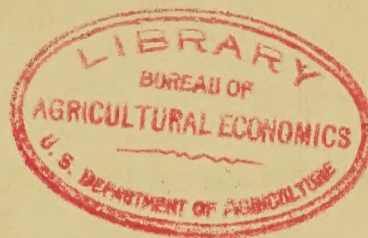


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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL ADJUSTMENT ADMINISTRATION
DIVISION OF MARKETING AND MARKETING AGREEMENTS



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Research
Grapes
SPEC

ECONOMIC STATISTICS RELATING TO THE CALIFORNIA GRAPE INDUSTRY

Prepared in cooperation with the Bureau of Agricultural Economics for interdepartmental conference in the consideration of marketing programs proposed by the California Grape Industry.

General Crops Section
Economic Analysis Unit

June, 1938

ECONOMIC STATISTICS RELATING TO THE CALIFORNIA GRAPE INDUSTRY

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Table 1
Farm Prices of California Grapes by Classes
1919-1937

Year	All Grapes Per Fresh Ton	Wine Grapes	Table Grapes	Raisin Grapes Marketed Fresh	Raisins	
					Per Fresh Ton	Per Dry Ton
	1	2	3	4	5	6
- dollars per ton -						
1919	55	50	75	--	56	210
1920	65	75	75	40	63	235
1921	62	82	80	40	51	190
1922	41	65	60	30	28	105
1923	22	40	40	20	12	45
1924	33	63	40	20	19	70
1925	28	60	20	20	21	80
1926	26	45	25	20	19	70
1927	24	45	26	23	16	60
1928	16	25	26	10	11	40
1929	24	35	35	20	16	61
1930	16	20/1	21/1	13/1	16	59
1931	20	19	35	25	16	60
1932	12	12	16	19	10	39
1933	16	20	15	17	15	57
1934	18	15	23	20	17	64
1935	13	12	14	12	15	56
1936	20	17	25	19	19	70
1937/2	19	21	22	21	17	63

/1. Includes returns from Control Board for unharvested grapes as well as returns from fresh raisin grapes actually marketed.

/2. Preliminary.

Source of data: 1919-1933, "Wine Grapes" Unpublished report by S.W. Shear, Giannini Foundation of Agricultural Economics September 8, 1934.
1933-1937, Economic Analysis Unit, General Crops Section, A.A.A.

Col. 1: Computed by weighting the farm values of the various classes of grapes as given in cols. 2, 3, 4, and 6, by the production of each class as reported in U. S. Dept. Agr., Bur. Agr. Econ., Crop Reporting Board, Revised Production of Apples, Peaches, Pears, Grapes, and Cherries, 1919-1935, Mimeographed Release March 1938, p. 16.

Cols. 2, 3, 4, and 6: Compiled from reports of the California Crop Reporting Service as follows:

1919-1922: From California Crop Report, 1925: 26-27.

1923: From California Crop Report, 1927: 32-33.

1924-1927: From California Crop Report, 1928: 36-37.

1928-1937: From mimeographed summaries of Fruit and Nut Crops of December.

Col. 5: Col. 6 divided by 3.75.

Table 2

Total Production* of California Grapes by Varietal/1 Classes

1919-1937

Crop Year	Total	Table/ <u>1</u>	Wine/ <u>1</u>	Raisin/ <u>1</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
	tons	tons	tons	tons
1919	1,345,000	200,000	400,000	745,000
1920	1,273,000	166,000	375,000	732,000
1921	1,100,000	163,000	310,000	627,000
1922	1,806,000	283,000	480,000	1,043,000
1923	2,030,000	312,000	428,000	1,290,000
1924	1,535,000	325,000	350,000	860,000
1925	2,050,000	439,000	395,000	1,216,000
1926	2,129,000	398,000	414,000	1,317,000
1927	2,406,000	490,000	473,000	1,443,000
1928	2,366,000	478,000	482,000	1,406,000
1929	1,827,000	312,000	417,000	1,098,000
1930	2,181,000	388,000	486,000	1,307,000
1931	1,320,000	229,000	316,000	775,000
1932	1,926,000	317,000	388,000	1,221,000
1933	1,660,000	270,000	420,000	970,000
1934	1,700,000	346,000	476,000	878,000
1935	2,194,000	375,000	571,000	1,248,000
1936	1,714,000	324,000	472,000	918,000
1937/ <u>2</u>	2,409,000/ <u>2</u>	399,000/ <u>2</u>	572,000/ <u>2</u>	1,438,000/ <u>2</u>
Average				
1933-1937	1,935,000	343,000	502,000	1,090,000

* Includes both harvested and unharvested production.

1. The chief varieties included in each class by the Crop Reporting Service in accordance with the most usual use for each variety are as follows: Raisin: Thompson Seedless, Muscat, and Sultana. Table: Tokay, Malaga, Emperor, Red Malaga, Cornichon, Almeria, Ribier. Wine: Zinfandel, Alicante Bouschet, Carignane, Petit Sirah, Mission, and Mataro, and also several minor black and white varieties.

2. Preliminary estimates of December, 1937.

Source of data: Compiled by the College of Agriculture, University of California, from United States and California Crop Reports.

Table 3
Grapes, California: Production and Utilization, 1927-1937
(In Terms of Tons)

Year	Total Production	Unharvested Production	Table Purposes/1		Raisins/2		Canned Fresh Basis
			Table Var.	Raisin Var.	Total	Fresh Basis	
1927	2,406,000	98,600	302,600	80,500	383,100	1,104,000	2,400
1928	2,366,000	153,000	335,700	69,700	405,400	1,008,000	1,600
1929	1,827,000	0	236,600	83,600	320,200	824,000	2,300
1930	2,181,000	433,000	245,300	71,100	316,400	731,000	1,300
1931	1,320,000	10,000	185,000	50,400	235,400	640,000	300
1932	1,926,000	154,000	167,000	63,400	230,400	1,012,000	500
1933	1,660,000	3,000	148,200	53,030	201,230	756,000	970
1934	1,700,000	0	186,800	76,600	263,400	679,200	2,200
1935	2,194,000	0	175,400	77,100	252,500	808,500	2,400
1936	1,714,000	0	205,700	84,100	289,800	728,000	3,200
1937	2,409,000/3	0	--	--	--	1,130,000/4	--
Av. 1933-1936	1,817,000	800	179,000	72,700	251,700	742,900	2,200

Year	Juice Purposes				Total Used for Juice	
	Crushed by Commercial Wineries		Otherwise Used for Juice/1		Total	for Juice
	Wine	Raisin	Table	Wine	Raisin	Table
1927	15,000	12,600	47,400	458,000	243,500	41,400
1928	47,200	28,000	27,800	416,800	238,700	39,500
1929	12,000	24,000	15,000	405,000	164,100	60,400
1930	23,400	22,000	28,700	422,600	162,600	40,000
1931	26,000	4,600	4,000	280,000	79,700	40,000
1932	60,000	12,000	27,000	303,000	112,100	15,000
1933	260,000	80,000	104,000	160,000	80,000	14,800
1934	301,000	90,000	139,000	175,000	30,000	20,200
1935	392,000	300,000	195,000	179,000	60,000	4,600
1936	322,000	67,000	105,000	150,000	35,700	13,300
1937	--	--	--	--	--	--
Av. 1933-1936	318,800	134,300	135,700	166,000	51,400	13,200
						230,600
						819,400

/1. Estimates made by S. W. Shear of the Giannini Foundation of Agricultural Economics, Univ. of Calif., and based upon reports of the California Cooperative Crop Reporting Service and of the Federal-State Market News Service. /2. Excluding dried grapes used for juice purposes. /3. Indicated production, Dec. 1, 1937. /4. Preliminary estimate of total dried raisins. /5. Preliminary estimate made by the Wine Institute, San Francisco, California, based upon its Statistical Survey. Source of data: Bureau of Agricultural Economics, taken from reports of the California Cooperative Crop Reporting Service, except as otherwise designated.

Table 4

Interstate Shipments of California Grapes, 1927-1937

Year	Table Grapes/1		Black Juice/2		White Juice/3		Unclassified		Total	
	Cars	Tons/4	Cars	Tons/4	Cars	Tons/4	Cars	Tons/4	Cars	Tons/4
1927	1	2	3	4	5	6	7	8	9	10
1927	25,802	335,426	29,515	383,695	16,982	220,766	210	2,730	72,509	942,617
1928	26,552	345,176	26,159	340,067	15,774	205,062	156	2,028	68,641	892,333
1929	20,307	263,991	24,491	318,383	11,340	147,420	105	1,365	56,243	731,159
1930	22,516	292,708	27,206	353,678	11,163	145,119	--	--	60,885	791,505
1931	15,959	207,467	15,805	205,465	4,925	64,025	103	1,339	36,792	478,296
1932	15,153	196,989	17,272	224,536	6,555	85,215	48	624	39,028	507,364
1933	13,624	177,112	8,944	116,272	4,164	54,132	62	806	26,794	348,322
1934	15,157	197,041	10,281	133,653	2,773	36,049	14	182	28,225	366,925
1935	14,453	187,889	11,208	145,704	4,216	54,808	35	455	29,912	388,856
1936	17,084	222,092	8,999	116,987	3,234	42,042	110	1,430	29,427	382,551
1937	18,223	236,899	10,758	139,854	4,589	59,657	70	910	33,640	437,320

- /1. Includes all varieties shipped for table purposes irrespective of major use classification.
 /2. Includes all black juice varieties shipped for juice purposes irrespective of major use classification.
 /3. Includes all white juice varieties shipped for juice purposes irrespective of major use classification.
 /4. Cars converted to tons basis of 13 tons per car. Conversion to tons only approximate because of variation in average loadings from year to year.

NOTE: For varieties included in each group see source below.

Source of data: U. S. Dept. Agr., Bur. Agr. Econ., and California Dept. Agr., Interstate Shipments of California Grapes, Season of 1937, by W. F. Cox, R. M. Bayer, and T.J. Fitzgerald. Mimeographed 1938.

Table 5
Production, Stocks, Shipments, and Prices of California Raisins/1
1921-1937

Year Beginning Sept. 1	Production	Stocks On Hand	Total Supply	Shipments			Price to Growers Dried Basis
	1	2	3	Domestic	Exports	Total	
	short tons	short tons	short tons	4	5	6	7
1921	145,000	36,000	181,000	125,200	29,800	155,000	190.00
1922	237,000	26,000	263,000	135,000	55,000	190,000	105.00
1923	290,000	73,000	363,000	149,400	45,600	195,000	45.00
1924	170,000	168,000	338,000	167,600	52,400	220,000	70.00
1925	200,000	118,000	318,000	168,000	72,000	240,000	80.00
1926	272,000	78,000	350,000	162,300	82,700	245,000	70.00
1927	285,000	105,000	390,000	178,000	107,000	285,000	60.00
1928	261,000	105,000	366,000	171,000	119,000	290,000	40.00
1929	215,000	76,000	291,000	148,600	66,400	215,000	61.00
1930	192,000	76,000	268,000	148,200	66,800	215,000	59.00
1931	169,000	53,000	222,000	124,100	60,900	185,000	60.00
1932	262,000	37,000	299,000	155,300	64,700	220,000	39.00
1933	195,000	79,000	274,000	137,500	52,500	190,000	57.00
1934	171,000	100,000	271,000	141,800	48,200	190,000	64.00
1935	203,000	80,000	283,000	154,100	60,900	215,000	56.00
1936	182,000	60,000	142,000	140,900/2	59,100	200,000/2	70.00
1937	250,000/2	50,000	300,000/2	--	--	--	63.00/2

/1. All data on sweat-box basis. /2. Subject to revision.

Source of data: Cols. 1, 4, 5, & 6: Shear, S.W., California Raisin Market Situation as of March 1, 1938, College of Agr., Univ. of Calif., mimeographed.

Col. 2: 1934-37, ibid.; 1921-33, Western Canner & Packer Yearbook & Statistical Number, 1936.
Col. 3: Col. 1 plus Col. 2.

Col. 7: 1921-1927, U. S. Dept. Agr., Bur. Agr. Econ. and Calif. Dept. Agr., Summary of California Annual Fruit Crop Report, 1921-22, from report of December, 1925; 1923, from report of December, 1927; 1924-1927 from report of December 1928.

1928-1937, U. S. Dept. Agr., Bur. Agr. Econ. & Calif. Dept. Agr., Summary of California Annual Fruit and Nut Crop Report, 1928-1929 from report of December, 1930; 1930-1932 from report of December, 1932; 1933-1934 from report of December, 1935; 1935-1937 from report of December, 1937.

Table 6

Still Wines: Production, Withdrawals, and Stocks on Hand
1933-34 - 1937-38

Year	Wine Removed from Fermenters	Production/2				Tax Paid Withdrawals				Stocks on Hand June 30					
		Under 14 Percent		Over 14 Percent		Total	Under 14 Percent		Over 14 Percent		Total	Under 14 Percent		Over 14 Percent	
		1	2	3	4		5	6	7	8		9	10		
- thousands of wine gallons -															
1933-34 Total	77,778	22,000	18,000	40,000	5,053	9,472	14,525	30,504	19,664	50,168					
1934-35 Total	91,729	15,000	27,000	42,000	12,141	23,260	35,401	32,868	23,596	56,464					
July-Dec.					6,408	11,715	18,123								
Jan.-June					5,733	11,545	17,278								
1935-36 Total	170,876	15,000	55,000	70,000	15,785	31,690	47,475	31,449	47,097	78,546					
July-Dec.					8,727	16,666	25,393								
Jan.-June					7,058	15,024	22,082								
1936-37 Total	122,045	16,000	37,000	53,000	20,994	41,042	62,036	25,759	42,369	68,128					
July-Dec.					11,469	22,738	34,207								
Jan.-June					9,525	18,304	27,829								
1937-38/1	224,622	38,000	59,000	97,000	15,149	27,711	42,860	47,986/3	73,455/3	121,441/3					
July-Dec.					12,370	2,032	34,402								

/1. July 1937 - February 1938.

/2. Calculated from figures on stocks and withdrawals as published in reports of the Commissioner of Internal Revenue.

/3. Stocks on hand February 28, 1938.

Source of data: Cols. 2, 3, & 4; Estimates of production made by Gordon E. Ockey, Bur. Agr. Econ., based upon reports of the Bureau of Internal Revenue.

Cols. 1, 5, 6, 7, 8, 9, & 10; (except 1937-38); U.S. Treas. Dept., Bur. of Internal Revenue, Alcohol Tax Unit - Statistics on Wine, Fiscal Year Ending June 30, for 1934, 1935, 1936, & 1937.

1937-38; U. S. Treas. Dept., Bur. Internal Revenue, Alcohol Tax Unit - Comparative Statistics on Still and Sparkling Wine for February and for the first Eight Months of the Fiscal Years, 1938 and 1937.

Table 7

Brandy and Other Distilled Spirits: Production, Withdrawals and Stocks on Hand

1933-34 - 1937-38

Season	Brandy			Other Distilled Spirits		
	Production	Withdrawals		Production	Tax Paid Withdrawals	Stocks on Hand June 30
		Tax Paid	Other			
1	1	2	3	4	5	6
						7
				- thousands of tax gallons -		
1933-34	8,574	1,044/1	4,711	4,205	67,932/2	58,860/4
1934-35	9,877	1,435/5	7,450	4,825	168,747	155,930
1935-36	20,094	1,649	16,713	6,279	251,256	304,525
1936-37	12,472	1,918	10,979	5,650	270,369	456,958/7
1937-38/8	22,156	1,553	18,539	7,519	111,284/2	488,482

1. Includes 142,213 gallons withdrawn tax paid, direct from brandy distilleries.
2. Does not include production of distilled liquor by rectifying plants.
3. Includes 4,968 gallons withdrawn tax paid, direct from brandy distilleries.
4. In addition, 834 gallons of whiskey in export storage warehouses.
5. Includes 55,123 gallons withdrawn tax paid, direct from brandy distilleries.
6. Includes 595 gallons withdrawn tax paid, from export storage warehouses.
7. In addition, 1,939 gallons unclassified spirits in export storage warehouses.
8. Includes July 1 to April 30 only - Preliminary.

Source of data: 1933-34, 1934-35, 1936-37; U. S. Treas. Dept., Bur. Internal Revenue - Statistics on Distilled Spirits for Fiscal Year Ending June 30 for 1934, 1935, 1937.

1935-36; U. S. Treas. Dept., Bur. Internal Revenue - Annual Report of the Commissioner of Internal Revenue, Fiscal Year Ending June 30, 1936.

1937-38; U. S. Treas. Dept., Bur. Internal Revenue - Comparative Statistics on Distilled Spirits for April and Ten Months of the Fiscal Years 1938 and 1937, Released May 23, 1938.

Table 8

Supply and Disappearance of California Grape Brandy/1

1900-1918 and 1933-1937

Year Beginning July 1	Produc- tion	Supply	Carry- Over	Apparent Disappearance Into Domestic and Foreign Outlets				Per Capita Disappear- ance of Commercial Brandy
				Total	Used for Fortifi- cation	Direct Export	Commer- cial Brandy	
1	2	3	4	5	6	7	8	
- thousands of proof gallons -								gallons
1900	3,195	4,034	781	3,253	2,220	4	1,029	.014
1901	3,464	4,245	940	3,305	2,293	11	1,001	.013
1902	5,614	6,554	1,395	5,159	4,011	15	1,133	.014
1903	4,452	5,847	1,440	4,407	3,329	65	1,013	.013
1904	4,602	6,042	1,525	4,517	3,260	16	1,241	.015
1905	3,864	5,389	928	4,461	2,999	3	1,459	.017
1906	5,367	6,295	913	5,382	3,962	2	1,418	.017
1907	6,388	7,301	1,496	5,805	4,234	1	1,570	.018
1908	5,881	7,377	2,062	5,315	3,678	7	1,630	.018
1909	7,062	9,124	2,283	6,841	4,703	18	2,120	.023
1910	7,206	9,489	2,318	7,171	4,952	7	2,212	.024
1911	8,591	10,909	2,571	8,338	6,153	13	2,172	.023
1912	7,360	9,931	2,612	7,319	4,671	5	2,643	.028
1913	6,664	9,276	2,322	6,954	4,643	3	2,308	.024
1914	7,787	10,109	3,324	6,785	4,426	2	2,357	.024
1915	3,723	7,047	3,296	3,751	1,156	7	2,588	.026
1916	7,754	11,050	2,158	8,892	4,896	251	3,745	.037
1917	5,217	7,375	1,148	6,227	3,755	40	2,432	.024
1918	1,775	2,923	499	2,424	1,906	48	470	--
1933	7,035/2	/3	/3	5,336/4	4,711/4	--	625/5	--
1934	9,292/2	/3	/3	8,310/4	7,450/4	--	860/5	.006
1935	19,233/2	/3	/3	17,868/4	16,713/4	--	1,155/5	.009
1936	11,944/2	/3	/3	12,319/4	10,979/4	--	1,340/5	.010
1937/6	20,782/2	/3	/3	19,629/4	18,539/4	--	1,090/5	--
Av. 1910-14	7,522	9,943	2,629	7,313	4,969	6	2,338	.024
Av. 1934-36	13,489	--	--	12,832	11,714	--	1,118	.008

/1. 1908-18 estimated from data for all fruit brandy. /2. Reported production of all fruit brandy in California, mostly grape brandy. /3. Not available.
 /4. Represents disappearance of grape brandy in the United States, mostly produced in California. /5. Estimated by taking 60 percent of tax paid withdrawals of fruit brandy in 1933-34 and 1934-35, and 70 percent in 1935-36, 1936-37, and 1937-38.
 /6. July 1, 1937 to April 31, 1938.

Source of data: 1900-1907; Shear, S. W. and Pearce, Gerald G., Supply and Price Trends in the California Wine-Grape Industry, Part 2, College of Agr., Univ. of Calif., Mimeo. 1934, table 36.

1908-1918; Ibid. table 35, Data for California grape brandy from 1900 to 1907 extended through 1918, basis of average relationship California grape brandy to all California fruit brandy for the period 1900 to 1907.

1933-1937; Estimates by Ockey, Gordon E., Bur. Agr. Econ., based on reports of the Federal Alcohol Control Administration, Washington, D. C.

Table 9

Ethyl Alcohol: Production, Withdrawals, and Stocks on Hand

1933-34 - 1937-38

Season	Total Production	Withdrawals			Tax Paid/2	Total	Stocks on Hand June 30		
		Denaturation	Tax Free	Other/1			Ethyl Alcohol	Denatured Alcohol/3	
1	2	3	4	5	6	7			
		- thousands of proof gallons -							
1933-34	165,104	137,417	2,581	16,155	156,153	27,971	8,753		
1934-35	180,646	163,010	3,095	16,991	183,096	25,253	9,297		
1935-36	196,126	172,479	3,407	24,052	199,939	21,300	10,928		
1936-37	223,181	179,324	3,607	32,290	215,221	28,465	10,107		
1937-38/4	170,308	139,248	2,989	23,130	165,367				

1. Mostly used in hospitals and for scientific and educational purposes.

2. Approximately two-thirds used at rectifying plants in the production of other distilled spirits.

3. Conversion factor (wine gallons to proof gallons) 1.88.

4. July 1 through April 30.

Source of data: 1933-34, 1935-36, & 1936-37; U. S. Treasury Dept., Bur. Internal Revenue, Statistics on Alcohol for 1935, 1936, & 1937.

1937-38; U. S. Treasury Dept., Bur. Internal Revenue, comparative statistics on alcohol for April and for ten months of the fiscal years 1938 and 1937, released May 23, 1938.

Table 10

Bearing Acreage of California Grapes, by Varietal/1 Classes

1919-1938

Crop Year	Total	Wine/ <u>1</u>	Table/ <u>1</u>	Raisin/ <u>1</u>
	1	2	3	4
	acres	acres	acres	acres
1919	322,000	97,000	55,000	170,000
1920	346,000	100,000	57,000	189,000
1921	362,000	105,000	60,000	197,000
1922	407,000	110,000	65,000	232,000
1923	434,371	114,772	77,389	242,210
1924	516,698	124,265	95,558	296,875
1925	597,592	140,323	122,611	334,658
1926	646,761	159,301	140,229	347,231
1927	635,464	169,168	131,956	334,340
1928	627,955	182,680	125,338	319,937
1929	606,843	194,689	116,659	295,495
1930	549,862	191,668	109,616	248,578
1931	530,758	187,649	99,957	243,152
1932	525,040	187,092	97,571	240,377
1933	504,552	182,514	88,923	233,115
1934	499,186	181,578	87,278	230,330
1935	491,100	177,500	78,600	235,000
1936	468,468	162,899	77,609	227,960
1937*	479,400	166,500	78,700	234,200
1938*	487,100/ <u>2</u>	169,400/ <u>2</u>	80,000/ <u>2</u>	237,700/ <u>2</u>

* Preliminary data.

1. The chief varieties included in each class by the Crop Reporting Service in accordance with the most usual use for each variety are as follows: Raisin: Thompson Seedless, Muscat, and Sultana. Table: Tokay, Malaga, Emperor, Red Malaga, Cornichon, Almeria, Ribier. Wine: Zinfandel, Alicante Bouschet, Carignane, Petit Sirah, Mission, and Mataro, and also several minor black and white varieties.
2. Nonbearing acreage as reported for 1938 is as follows: total grapes, 13,100 acres; wine, 3,800 acres; table, 3,500 acres; and raisin, 5,800 acres.

Source of data: Compiled by the College of Agriculture, University of California, from California Crop Reports.